

INFANT MORTALITY: State Summary

INFANT MORTALITY

INTRODUCTION

Purpose of Infant Mortality Surveillance

An *infant death* is a death to a baby between birth and 1 year of age. The rate of infant deaths is a basic measure of the health of a population. High infant mortality rates reflect unmet medical care needs and unfavorable environmental, economic, nutritional, educational, and sanitation conditions. Infant mortality surveillance is used to identify factors that put infants at high risk of death, so medical, social, and economic interventions to reduce this risk can be targeted effectively.

An increased risk of infant death is related to a number of factors, including extremes in maternal age at birth (under 19 or over 40 years), fewer than 2 years between births, birth under conditions of poor maternal health or poor nutrition, and use of chemical toxins such as alcohol, drugs, and cigarettes during pregnancy. Many of these factors also are associated with low birth weight. After the first month of life, poor infant nutrition, poor hygiene, and infectious diseases all increase the risk of infant mortality.

Source of Data: Death Certificates

Infant mortality information presented in this report is gathered from data recorded on the *Certificate of Death* for deaths that occurred to infants born to Louisiana residents during the 1997 calendar year. All original death certificates flow to the Vital Records Registry in New Orleans.

Data are recorded on death certificates by funeral directors, who solicit demographic information from available next of kin, and by physicians or coroners, who record information on time, place, and cause of death. Louisiana law requires that funeral directors send death certificates to the Vital Records Registry within five days of the occurrence of a death, and that the identities of persons included in the death registry be kept confidential.

Death statistics are compiled in accordance with World Health Organization (WHO) regulations, which require member nations to classify causes of death according to the revision of the International Statistical Classification of Diseases in effect at the time of death. Deaths that occurred in 1997 are coded in accordance with the ninth revision (ICD-9).

All of the causes of death described in this report are *underlying causes of death*, defined as the disease or injury that initiated the sequence of events leading to death. Secondary causes of death, which also are recorded on the death certificate, are not presented in this report.

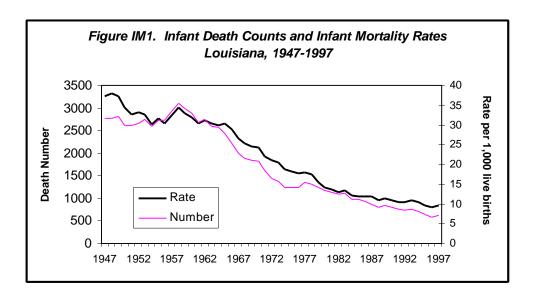
Unless otherwise noted, all statistics reported here are for deaths to infants born to Louisiana residents, regardless of the state in which the death occurred. The Vital Statistics Cooperative Program, a nationwide system of information interchange among all states and territories, makes possible the reporting of out of state deaths to Louisiana residents.

Death registration in Louisiana is considered to be 100% complete, since a death certificate must be filed before a burial permit may be obtained. However, it is possible that death registration is not carried out accurately in cases of infants dying shortly after birth.

INFANT MORTALITY COUNTS AND RATES

Infant Death Counts and Mortality Rates

- In 1997, 629 infants born to Louisiana residents died. This was 43 more than the 586 infants who died in 1996 (Figure IM1, Table IM1).
- Louisiana's 1997 infant mortality rate rose to 9.5 per 1,000 live births, an increase of 5.4% from the 1996 rate of 9.0. The 1997 rate was a 1.6% decrease from the 1995 rate of 9.7 per 1,000 live births. (Figure IM1, Table IM1).

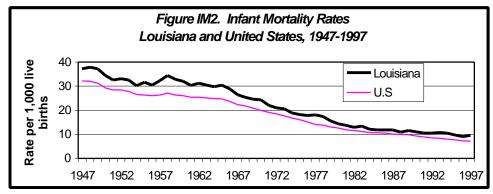


To help identify factors that lead to infant deaths, infant mortality is divided into two time periods based on the baby's age at death. Deaths occurring during the first 27 days of life are labeled *neonatal deaths*; those occurring from 28 days through 364 days of age are *postneonatal deaths*. In general, neonatal deaths reflect problems with heredity, prenatal development, and the birth process; postneonatal deaths are influenced by environmental factors, such as nutrition, hygiene, and accidents. The distinction between these two periods, however, has been blurred in recent years because of increased survival of premature infants due to advances in neonatology.

A number of different rates are used to describe deaths among children during the first year of life. The most often reported is the *infant mortality rate*, which measures deaths to infants under 1 year of age. This rate is calculated by dividing the number of deaths occurring in one year to children under the age of 1 year by the total number of live births during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of infant deaths per 1,000 live births. Other rates include:

- neonatal mortality rate deaths to infants under 28 days of age, per 1,000 live births.
- postneonatal mortality rate deaths to infants between 28 and 364 days, per 1,000 live births.
- hebdomadal mortality rate deaths to infants under 7 days of age, per 1,000 live births.
- perinatal mortality rate stillbirths (fetal deaths) + deaths to infants under 7 days of age, per 1,000 stillbirths + live births.

- Since the mid 1960s, infant mortality rates for both Louisiana and the United States have declined, due largely to advances in the development of antibiotics, infectious disease vaccines, and neonatology (Figure IM2, Table IM1).
- Despite declining rates, Louisiana's infant mortality rate of 9.5 infant deaths per 1,000 live births remained higher than the national rate of 7.2 (Figure IM2, Table IM1).



Source: Louisiana State Center for Health Statistics National Center for Health Statistics.

	Table IM1. Infant Death Counts and Infant Mortality Rates Louisiana and United States, 1980-1997						
		Louis	iana			United Stat	es
Year	Number	Mortality	Mortality	Mortality	Mortality	Mortality	Mortality
1980	1175	14.3	10.0	4.3	12.6	8.5	4.1
1981	1129	13.7	9.2	4.5	11.9	8.0	3.9
1982	1094	12.9	8.4	4.5	11.5	7.7	3.8
1983	1108	13.4	8.9	4.5	11.2	7.3	3.9
1984	984	12.1	8.0	4.1	10.8	7.0	3.8
1985	966	11.9	7.7	4.2	10.6	7.0	3.7
1986	925	11.9	7.7	4.1	10.4	6.7	3.6
1987	870	11.8	7.7	4.1	10.1	6.5	3.6
1988	808	10.9	7.0	4.0	10.0	6.3	3.6
1989	834	11.5	7.3	4.2	9.8	6.2	3.6
1990	796	11.0	6.7	4.4	9.2	5.8	3.4
1991	754	10.5	6.6	3.9	8.9	5.6	3.4
1992	736	10.4	6.6	3.9	8.5	5.4	3.1
1993	752	10.8	6.8	4.0	8.4	5.3	3.1
1994	715	10.5	7.0	3.5	8.0	5.1	2.9
1995	639	9.7	6.4	3.3	7.6	4.9	2.7
1996	586	9.0	5.6	3.4	7.3	4.8	2.5
1997	629	9.5	6.2	3.3	7.2	4.8	2.5

^{*}Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births

Source: Louisiana State Center for Health Statistics National Center for Health Statistics.

^{**}Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births

^{***}Postneonatal Mortality Rate = deaths to infants between 28 and 364 days, per 1,000 live births

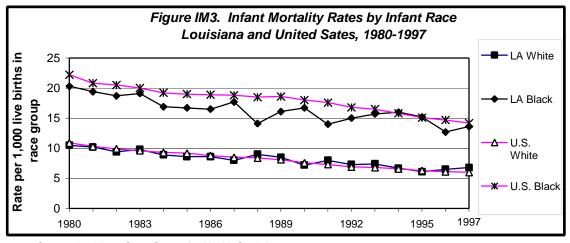
Infant Mortality by Infant Race

- Of the 629 infant deaths to Louisiana residents, 254 (40.4%) occurred among whites, 370 (58.8%) among blacks, and 5 (0.8%) among other races (Table IM8).
- For all measures of infant mortality, black rates were approximately double those of whites (Table IM2).
 This racial difference in infant mortality rates has existed for many years at both the state and national level (Figure IM3, Table IM3).

	Table IM2. Infant Mortality Rates by Age at Death and Infant Race Louisiana, 1997														
	Rate* by Age (in Days) at Death Combined Rates														
Race	Under 1	1-6	7-13	14-20	21-27	28-364	4 Hebdomadal** Neonatal*** Perinatal* Infa								
All	3.7	1.2	0.6	0.5	0.2	3.3	4.9	6.2	12.8	9.5					
White	2.2	1.0	0.6	0.5	0.2	2.4	3.2	4.4	9.3	6.8					
Black	5.8	1.5	0.7	0.5	0.4	4.7	7.3	8.9	17.7	13.6					
Other	1.4	1.4	-	-	-	0.7	2.9	2.9	10.0	3.6					

^{*}Rate per 1,000 live births in age category

With the exception of 1994 and 1995, Louisiana's black infant mortality rates consistently have been lower than
the national rates for blacks. In 1996 and 1997 Louisiana's black rates again fell below the national level.
Louisiana and United States infant mortality rates among whites historically have been very similar to
each other (Figure IM3, Table IM3).



Source: Louisiana State Center for Health Statistics National Center for Health Statistics

^{**}Hebdomadal mortality rate = deaths to infants under 7 days, per 1,000 live births

^{***}Neonatal mortality rate = deaths to infants under 28 days, per 1,000 live births

⁺Perinatal mortality rate = stillbirths + deaths to infants under 7 days, per 1,000 stillbirths + live births

⁺⁺ Infant mortality rate = deaths to infants under 1 year, per 1,000 live births

[&]quot;-"Indicates no death occurred in these categories

7	able IM	3. Infant	t Mortali	ty Rates Louisi	b	y Infant i	Race	s, and P 980-1997		atal Mor	tality Ra	tes
	Infa	nt Mortal	ity Rate*				ality Rate			onatal Me	ortality Ra	ate***
	Louisi	ana	United	States	Louisi	iana	United	States	Louis	iana	United	States
Year	White	Black	White	Black	White	Black	White	Black	White	Black	White	Black
1980	10.5	20.3	10.9	22.2	7.3	14.2	7.4	14.6	3.2	6.1	3.5	7.6
1981	10.2	19.4	10.3	20.8	6.9	13.0	7.0	14.0	3.3	6.4	3.4	6.8
1982	9.4	18.7	9.9	20.5	6.3	11.7	6.7	13.6	3.1	7.0	3.2	6.9
1983	9.8	19.1	9.6	20.0	6.6	12.5	6.3	12.9	3.2	6.6	3.3	7.0
1984	8.9	16.9	9.3	19.2	6.0	11.2	6.1	12.3	2.9	5.7	3.2	6.8
1985	8.6	16.7	9.2	19.0	5.9	10.5	6.0	12.6	2.7	6.2	3.2	6.4
1986	8.6	16.5	8.8	18.9	5.9	10.3	5.7	12.3	2.7	6.2	3.1	6.6
1987	8.0	17.7	8.5	18.8	5.1	11.7	5.4	12.3	2.9	6.0	3.1	6.4
1988	9.0	14.1	8.4	18.5	5.6	9.2	5.3	12.1	3.4	4.9	3.1	6.5
1989	8.5	16.1	8.1	18.6	5.5	10.0	5.1	11.9	3.0	6.1	2.9	6.7
1990	7.2	16.7	7.6	18.0	4.4	10.0	4.8	11.6	2.8	6.7	2.8	6.4
1991	8.0	14.0	7.3	17.6	5.3	8.5	4.5	11.2	2.7	5.5	2.8	6.3
1992	7.3	15.0	6.9	16.8	4.5	9.6	4.3	10.8	2.8	5.4	2.6	6.0
1993	7.4	15.7	6.8	16.5	4.5	10.0	4.3	10.7	2.9	5.7	2.5	5.8
1994	6.7	16.0	6.6	15.8	5.0	11.0	4.2	10.2	1.7	5.0	2.4	5.6
1995	6.1	15.2	6.3	15.1	4.1	10.0	4.1	9.8	2.0	5.2	2.2	5.3
1996	6.5	12.7	6.1	14.7	3.9	8.0	4.0	9.6	2.6	4.7	2.1	5.1

4.0

9.4

2.4

4.7

2.0

4.8

14.2

Source: Louisiana State Center for Health Statistics

1997

National Center for Health Statistics

13.6

6.8

Infant Mortality by Infant Race and Sex

- Within races, infant mortality rates for males historically have been higher than those for females, with black males having the highest rates. This year, however, infant mortality rates for black females exceeded those for black males (Figure IM4, Table IM4).
- Since the beginning of the decade, infant mortality rates for black males gradually have declined (Figure IM4, Table IM4).

^{6.0} *Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births

^{**}Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births

^{***}Postneonatal Mortality Rate = deaths to infant between 28 and 364 days, per 1,000 live births

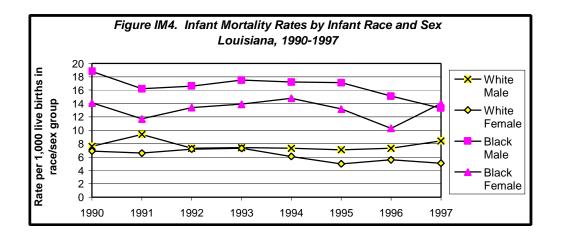


Table	IM4. Infant		Rates* by In , 1990-1997		nd Sex
		Whit	e	Blac	ck
Year	Total	Male	Female	Male	Female
1990	11.0	7.6	6.9	18.8	14.1
1991	10.5	9.4	6.6	16.2	11.7
1992	10.4	7.3	7.2	16.6	13.4
1993	10.8	7.4	7.3	17.5	13.9
1994	10.5	7.3	6.1	17.2	14.8
1995	9.7	7.1	5.0	17.1	13.2
1996	9.0	7.3	5.6	15.1	10.3
1997	9.5	8.4	5.1	13.3	14.0

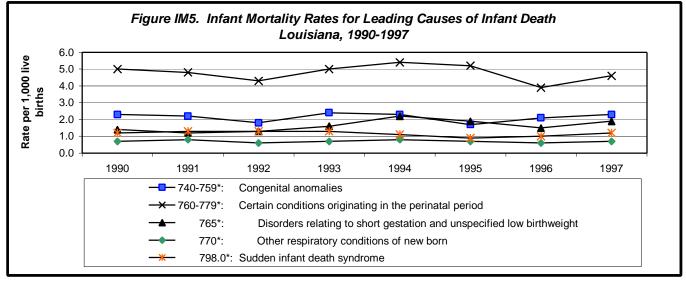
*Rate per 1,000 race/sex-specific live births

CAUSES OF INFANT DEATH

Leading Causes of Infant Death

- Perinatal conditions, congenital anomalies, and sudden infant death syndrome historically have been the leading causes of death among Louisiana's infants (Figure IM5, Table IM6).
- 38% of all infant deaths (241 deaths) occurred within the first day of life, primarily from perinatal
 conditions and congenital anomalies (Tables IM5 and IM8).
- 35% of infant deaths (219 deaths) occurred between the 28th and 364th day of life, with the leading causes being sudden infant death syndrome, congenital anomalies, and perinatal conditions (Tables IM5 and IM8).

Table IM5. Death Counts for Leading Causes of Infant De Louisiana, 1997	· · · · · · · · · · · · · · · · · · ·							
	Age at Dea	nth, in Days						
Cause of Death (ICD-9 Code)	Under 1 day	28 - 364 days						
Congenital anomalies (740-759)	40	40						
Perinatal conditions (760-779)	198	15						
Short gestation/Low birthweight (765)	115	1						
Other newborn respiratory conditions (770)	25	9						
III-defined conditions (780-799)	0	82						
Sudden infant death syndrome (798.0)	0	79						



*ICD-9 Code

	Table IM6. Infant Mortality Rates* by Leading Causes of Infant Death Louisiana, 1990-1997											
		Pei	rinatal Condit	ions	III-defined	l Conditions						
Year	Congenital Anomalies	All	Short Gestation/ Low Birthweight	Other Newborn Respiratory Conditions	AII	Sudden Infant Death Syndrome						
	(740-759**)	(760-779**)	(765**)	(770**)	(770**) (780-799**)							
1990	2.3	5.0	1.4	0.7	1.4	1.2						
1991	2.2	4.8	1.2	0.8	1.5	1.3						
1992	1.8	4.3	1.3	0.6	1.4	1.3						
1993	2.4	5.0	1.6	0.7	1.4	1.3						
1994	2.3	5.4	2.2	0.8	1.2	1.1						
1995	1.7	5.2	1.9	0.7	0.9	0.9						
1996	2.1	3.9	1.5	0.6	1.1	1.0						
1997	2.0	4.6	1.9	0.7	1.3	1.2						

^{*}Rate per 1,000 live births **ICD-9 Code

Leading Causes of Infant Death by Infant Race and Sex

- Black infant mortality rates for deaths from perinatal conditions are more than double those of whites (Tables IM7 and IM8).
- The highest infant death rate from III-defined Conditions, including Sudden Infant Death Syndrome, is seen in black females (Tables IM7 and IM8).

Table IM7	Table IM7. Infant Mortality Rates* by Leading Causes of Infant Death, Sex, and Race Louisiana, 1997										
		Pe	erinatal Conditi	ons	III-defined	Conditions					
Race/Sex	Congenital Anomalies (740-759**)	AII (760-779**)	Short Gestation/ Low Birthweight (765**)	Other Newborn Respiratory Conditions (770**)	AII (780-799**)	Sudden Infant Death Syndrome (798**)					
White Male	2.1	3.3	1.1	0.6	1.3	1.3					
White Female	1.9	2.2	0.9	9 0.1 0.3 0.3							
Black Male	2.0	7.4 3.3 1.1 1.6 1									
Black Female	2.1	7.3	3.4	1.3	2.5	2.3					

^{*}Rate per 1,000 live births

Selected Causes of Infant Death

Table IM8 give details of counts and rates of infant deaths by causes of death, infant race, and infant sex.

Table IM8. Infant Deati	ı (Exclusiv		irths) by S ana, 1997		Causes,	Sex, Rad	e, and A	ge	
	·					Age at Death Days 6 7-13 14-20 21-27 28-3 82 40 31 16 25 17 12 2 14 4 5 4 22 10 8 8 19 9 6 2 1 1 1 1			
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364
Total	953.8	ALL	629	241	82	40	31	16	219
	839.1	WM	160	46	25	17	12	2	58
	511.7	WF	94	35	14	4	5	4	32
	1326.4	BM	183	80	22	10	8	8	55
	1404.1	BF	187	78	19	9	6	2	73
	273.6	OM	2	1	1	-	-	-	-
	452.5	OF	3	1	1	-	-	-	1
Certain intestinal	7.6	ALL	5	-	-	1	-	-	4
Infections-(008-009)	5.2	WM	1	-	-	-	-	-	1
	-	WF	-	-	-	-	-	-	-
	14.5	BM	2	-	-	1	-	-	1
	15	BF	2	-	-	-	-	-	2
	-	OM	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-		-

^{**}ICD-9 Code

Table IM8. Intant De	eath (Exclusiv	ve Of Stillb Louis	irths) by iana, 1997	Selected (7	Causes,	Sex, Rad	ce, and A	lge	
						Age at D	Race, and Age at Death Days 13		
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13			28-364
Whooping cough-(033)	-	ALL	-	-	_	-	-	-	
	-	WM	-	-	_	-	-	-	
	-	WF	-	-	_	-	-	-	
	-	BM	-	-	-	-	-	-	
	-	BF	-	-	-	-	-	-	
	-	ОМ	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	
Meningococcal infection-	1.5	ALL	1	-	-	-	-	-	1
(036)	-	WM	-	-	-	_	-	-	
	-	WF	-	-	-	_	-	-	
	7.2	BM	1	-	-		-	-	1
	-	BF	-	-	-	-	-	-	
	-	ОМ	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	
Septicemia-(038)	12.1	ALL	8	3 -	-		-	-	8
	31.5	WM	6	; -	-	_	-	-	6
	10.9	WF	2	2 -	-		-	-	2
	_	BM	-		-		-	-	
	-	BF	-		-		-	-	
	-	ОМ			_		_	-	
	-	OF			-		-	21-27	
Viral diseases-(045-079)	1.5	ALL	1	-			-	-	1
,		WM	-		_		-	-	
	_	WF	_	-		_	_	-	
	7.2	BM	1	-			_	-	1
		BF	-				_	-	
	_	OM			-		_	-	
	_	OF			-		_	-	
Congenital syphilis-(090)	_	ALL	_				_	_	
20.1ge.ma. 3)p2 (223)	_	WM	_				_	_	
	_	WF	_				_	_	
	_	BM					_	_	
	_	BF					_	_	
	<u> </u>	OM	_				_	_	
	_	OF	_				_	_	
Remainder of infectious	7.6	ALL	5	;			2	_	-
And parasitic diseases-		WM	1				1		
(001-007,010-032,034-035,037,		WF	1				<u> </u>	_	1
039-041,080-088,091-139)		BM	1				-	-	<u> </u>
000-041,000-000,031-103)		BF	2				1	-	1
	13	ОМ	-	1	-		'	-	'
		OF	-	-	-	-	-	_	
	-	OF.	-]	-		1 -	_	

Table IM8. Infant De	eath (Exclusiv	e Of Stillb' Louis	irths) by 3 iana, 1997	Selected (Causes,	Sex, Rad	ce, and A	lge	
						Age at D	eath Day	ath Days	
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13			28-364
Malignant neoplasms,	3	ALL	2	-	-	-	-	-	2
Including neoplasms of	5.2	WM	1	-	-	-	-	-	1
Lymphatic and	5.4	WF	1	-	-	_	-	-	1
Hematopoietic tissues-	-	BM	-	-	-	_	-	-	-
(140-208)	-	BF	-	-	-	_	-	-	-
	-	OM	-	-	-		-	-	-
	-	OF	-	-	-	_	-	-	-
Benign neoplasms,	-	ALL	-	-	-	-	-	-	-
Carcinoma in situ, and	-	WM	-	-	-	_	-	-	-
Neoplasms of uncertain	-	WF	-	-	-		-	-	-
Behavior and of unspecified	-	BM	-	-	-		-	-	-
Nature-(210-239)	-	BF	-	-	-		-	-	-
, ,	-	ОМ	-	-	-		-	-	_
	_	OF	_	-	-		_	-	_
Diseases of thymus gland-	-	ALL	_	_			_	_	_
(254)		WM	_	_			_	-	_
(== 1)		WF	_	_			_	_	_
		BM	_	_			_	_	_
		BF	_	_			_	_	_
		OM	_	_			_	_	_
		OF	_	_		_	_	_	
Cystic fibrosis-(277.0)	_	ALL	_	_			_	_	_
Cystic fibrosis (277.0)		WM	_				_	_	
		WF							
		BM	_				_	_	
		BF	_				_	_	
	-	OM	_	1			_	-	_
	-	OF	-	-	•	_	_	-	_
6: (1)			-	-	•	-	-	-	-
Diseases of blood and		ALL	-	-	-	-	-	-	-
Blood-forming organs-		WM	-	-	-	-	-	-	-
(280-289)		WF	-	-	-	-	-	-	-
		BM	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
	-	OM	-	-	-	-	-	-	-
M : ''' (000 000)	-	OF	-	-		-	-	-	-
Meningitis-(320-322)		ALL	2	-	-	-	-	-	2
		WM	-	-			-	-	-
		WF	-	-	-	-	-	-	-
		BM	1		-	-	-	-	1
	7.5		1	-	-	-	-	-	1
		ОМ	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-

Table IM8. Infant De	eath (Exclusiv	ve Of Stillb Louis	irths) by 3 iana, 1997	Selected (Causes,	Sex, Rad	e, and A	lge	
			14114, 1001			Age at De	Death Days 14-20 21-27 26 1		
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13			28-364
Other diseases of nervous	9.1	ALL	6	-	-	1	-	-	5
System and sense organs-	15.7	WM	3	-	-	1	-	-	2
(323-389)	5.4	WF	1	-	-	-	-	-	1
	7.2	BM	1	-	-	-	-	-	1
	7.5	BF	1	-	-	-	-	-	1
	-	ОМ	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Acute upper respiratory	1.5	ALL	1	-	-	-	-	1	-
Infections-(460-465)	_	WM	-	_	-	-	-	-	-
	_	WF	-	_	-	-	-	-	-
	_	BM	-	-	-	-	-	-	-
	7.5	BF	1	-	_	-	-	1	-
	-	ОМ	_	_	_	_	-	-	_
	_	OF	_	-		_	-	-	_
Bronchitis and	3	ALL	2	_		_	_	_	2
Bronchiolitis-(466,490-491)		WM	_	_		_	_	_	
(100,100,100,100,100,100,100,100,100,100		WF	1	_		_	_	_	1
		BM	_	_		_	_	_	
		BF	1	_		_	_	_	1
	7.0	OM	· .	_		_	_	_	
	_	OF	_	_		_	_	21-27	
Pneumonia and influenza-	15.2	ALL	10	_	1	2	_	_	7
(480-487)		WM	3				_	_	1
(400-401)		WF	1		<u>'</u>	'			1
	21.7		3			1	_	_	2
	22.5		3			_	_	_	2
	22.3	OM	3			_	-	-	3
		OF	-	-	-	_	-	-	_
. (100, 100)			-	-		-	-	-	
Pneumonia-(480-486)		ALL	10		1		-	-	/
		WM	3		1	1	-	-	1
		WF	1		-	-	-	-	1
	21.7		3			1	-	-	2
	22.5		3	-	-	-	-	-	3
	-	OM	-	-		-	-	-	-
1.0	-	OF	-	-	-	-	-	-	-
Influenza-(487)	-	ALL	-	-	_	-	-	-	-
	-	WM	-	-	_	-	-	-	-
		WF	-	-	-	-	-	-	-
		ВМ	-	-	-	-	-	-	-
	-	BF	-	-	-	-	-	-	-
		OM	-	-	_	-	-	-	_
	_	OF	-	-	-	-	-	-	_

Table IM8. Infant De	atri (Exclusi)		iana, 1997		Jauses, .	sex, Rac	e, and A	ge	
					A	ge at De	eath Day	s	
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364
Remainder of diseases of	7.6	ALL	5	-	-	-	-	-	5
Respiratory system-	5.2	WM	1	-	-	-	-	-	1
(470-478,492-519)	-	WF	-	-	-	-	-	-	-
	14.5	ВМ	2	-	-	-	-	-	2
	15	BF	2	-	-	-	-	-	2
	-	ОМ	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Hernia of abdominal cavity	1.5	ALL	1	-	-	-	-	-	1
And intestinal obstruction	-	WM	-	-	-	-	-	-	-
Without mention of hernia-	-	WF	-	-	-	-	-	-	_
(550-553,560)	7.2	BM	1	-	-	-	_	-	1
	_	BF	-	-	-	-	-	-	_
	_	OM	_	_	-	-	_	-	
	_	OF	_	_	-	_	_	-	_
Gastritis, duodenitis, and	3	ALL	2	_	_	1	1		
Noninfective enteritis and		WM	1			<u> </u>	1	_	
Colitis-(535,555-558)	5.2	WF	'				'	_	
Contis-(333,333-336)	7.2	BM	1	1		1			
	1.2	BF	!	-		- 1	_	-	-
			-	-	-		-	-	-
		OM	-	-	-		-	-	_
	-	OF	-	-	-	-	-	-	-
Remainder of diseases of		ALL	3		-	-	-	•	3
Digestive system-		WM	1	-	-	-	-	-	1
(520-534,536-543,562-579)		WF	-	-	-	-	-	-	-
	14.5		2	-	-	-	-	-	2
	_	BF	-	-	-	-	-	-	
	-	ОМ	-	-	-	-	-	-	-
	-	OF	-	-	-	-	-	-	-
Congenital anomalies-	198.6		131		27	10	8	6	40
(740-759)	209.8	WM	40	13	11	5	4	2	5
	185.1	WF	34	12	7	1	2	1	11
	202.9	BM	28	8	5	1	1	3	10
	210.2	BF	28	6	4	3	1	-	14
	136.8	ОМ	1	1	-	-	-	-	_
	-	OF	-	-	-	-	-	-	-
Anencephalus and similar	10.6	ALL	7	6	1	-	-	-	-
Anomalies-(740)		WM	5		1	-	-	-	_
		WF	1		-	_	_	_	_
		BM	_	-	-	_	-	-	_
		BF	1	1	-	-	-	-	_
	-	OM	<u> </u>	 	_	_	_	_	_
		OF	_	1	_		_	_	_
]							

Table IM8. Infant De	eath (Exclusiv	ve Of Stillb Louis	oirths) by 3 iana, 1997	Selected (Causes,	Sex, Rad	ce, and A	lge		
		Louis	14714, 1001	Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364	
Spina bifida-(741)	-	ALL	-	-	-	-	-	-	-	
	-	WM	-	-	-	-	-	-	-	
	-	WF	-	-	-	-	-	-	-	
	-	BM	-	-	-	-	-	-	-	
	-	BF	-	-	-	-	-	-	-	
	-	ОМ	-	-	-	-	-	-	-	
	-	OF	_	-	-	-	-	-	_	
Congenital hydrocephalus-	7.6	ALL	5	3	-	-	-	-	2	
(742.3)	5.2	WM	1	1	-	-	-	-	-	
,		WF	1	1	-	-	-	-	_	
	-	BM	_	-	-	-	-	-	_	
	15	BF	2	-	-	-	-	-	2	
	136.8		1		-	-	-	-		
	_	OF	_	_	-	-	-	-	_	
Other congenital	10.6	ALL	7	1	2	_	_	_	4	
Anomalies of central		WM	2		1		_	_		
Nervous system and eye-	16.3		3		1		_	_	2	
(742.0-742.2,742.4-742.9,743)	14.5		2		'		_	_	2	
(142.0-142.2,142.4-142.9,143)	14.5	BF		-			_	_		
	-	ОМ	-	-	-	-	-	-	-	
	-		-	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	-	
Congenital anomalies of		ALL	40		10	6		4		
Heart-(745-746)		WM	13		5	3		1	2	
	65.3		12		3	1	2	-	6	
	65.2		9		2	1	-	3	2	
	45.1		6	1	-	1	1	-	3	
	-	ОМ	-	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	-	
Other congenital		ALL	3	-	-	1	-	-	2	
Anomalies of circulatory	5.2	WM	1	-	-	1	-	-	_	
System-(747)	-	WF	-	-	-	-	-	-	-	
	7.2	BM	1	-	-	-	-	-	1	
	7.5	BF	1	-	-	-	-	-	1	
	-	OM	-	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	-	
Congenital anomalies of	21.2	ALL	14	5	6	-	-	-	3	
Respiratory system-(748)		WM	3	1	2	-	-	-	-	
	16.3		3	1	2	-	-	-	-	
		BM	4	1	1	-	-	-	2	
		BF	4	2	1	-	-	-	1	
	-	OM	_	-	-		-	-	_	
	-	OF	_	-	-	_	-	-	_	

Table IM8. Infant De	atn (Exclusi	ue Or Stillis Louis	intris) by 3 iana, 1997	seiectea C	Jauses,	sex, Rac	e, and A	ige		
				Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364	
Congenital anomalies of	3	ALL	2	-	-	1	-	-	1	
Digestive system-(749-751)	5.2	WM	1	-	-	1	-	-	-	
	-	WF	-	-	-	-	-	-	-	
	-	ВМ	-	-	-	-	-	-		
	7.5	BF	1	-	-	-	-	-	1	
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Congenital anomalies of	12.1	ALL	8	5	1	-	1	-	1	
Genitourinary system-	21	WM	4	2	-	-	1	-	1	
(752-753)	10.9	WF	2	2	-	-	-	-		
	14.5	BM	2	1	1	-	-	-		
	_	BF	-	-	-	-	-	-		
	_	ОМ	-	-	-	-	-	-		
	_	OF	-	-	-	-	-	-		
Congenital anomalies of	16.7	ALL	11	5	1	-	-	1	4	
Musculoskeletal system-	15.7	WM	3	1	-	-	-	1	1	
(754-756)		WF	1	1	-	-	-	-		
	21.7	BM	3	2	-	-	-	-	1	
		BF	4	1	1	-	-	-	2	
		ОМ	_	-	-	-	-	-		
	_	OF	_	-	-	-	-	-		
Down's syndrome-(758.0)	4.5	ALL	3	-	-	-	1	1	1	
, , ,		WM	-	-	-	-	-	-		
		WF	1	_	-	-	_	1		
		BM	1		-	-	1	-		
		BF	1	_	-	_	_	_	1	
		OM	_	_	-		_	-		
	<u> </u>	OF	_	_	_		_	_		
Other chromosomal	15.2	ALL	10	3	3		1	_		
Anomalies-(758.1-758.9)		WM	2		1		1	_		
raiomanos (roc. roc.e)		WF	6		1		-	_	2	
		BM	1		1		_	_		
		BF	1				_	_	1	
	7.5	OM	<u>'</u>				_	_		
		OF	_					_		
All other and unspecified	21.0	ALL	21	10	3	2		_	-	
Congenital anomalies-		WM	5		1			_	1	
(744, 757, 759)		WF	4		- '		_	_	1	
(177, 101, 100)	36.2		5		-		-	-		
	52.6		7	3	2	2	-	-	-	
	52.0	ОМ	· '	'			-	-		
	-	OF	-	-	-		-	-		
		OF .	_	-	-	-	_	_		

Table IM8. Infant De	Cati (Exclusit		iana, 1997				o, and A	9°	
					Α	ge at De	eath Days	s	
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364
Certain conditions	461	ALL	304	198	53	17	14	7	15
Originating in the perinatal	325.2	WM	62	33	13	10	4	-	2
Period (760-779)	217.7	WF	40	22	7	2	3	3	3
	739.3	BM	102	72	17	1	4	4	4
	728.3	BF	97	70	14	4	3	-	(
	136.8	OM	1	-	1	-	-	-	
	301.7	OF	2	1	1	-	-	-	
Newborn affected by	3	ALL	2	1	1	-	-	-	
Maternal conditions which	-	WM	-	-	-	-	-	-	
May be unrelated to	5.4	WF	1	1	-	-	-	-	
Present pregnancy-(760)	7.2	BM	1	-	1	-	-	-	
	-	BF	-	-	-	-	-	-	
	-	OM	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	
Newborn affected by	31.8	ALL	21	17	1	1	2	-	
Maternal complications of		WM	4	3	1	-	-	-	
Pregnancy-(761)		WF	1	1	-	-	-	-	
	43.5		6	6	-	-	-	-	
	75.1		10	7	-	1	2	-	
	-	OM	_	-	_	-		_	
	-	OF	_	_	_	-	-	_	
Newborn affected by	36.4		24	21	3	-	-	_	
Complications of	15.7		3	3	-	_	-		
Placenta,cord,and	32.7		6	5	1	_	_	_	
Membranes-(762)	72.5		10	8	2	_	_		
Wiembranes (702)	37.5		5	5		_	_	_	
	37.3	OM		-					
		OF	_						
Newborn affected by other		ALL	<u> </u>						
Complications of labor and		WM	_						
Delivery-(763)		WF						_	
Delivery-(703)		BM	_						
		BF	-	-	-	-	-	-	
		ОМ	-	-	-				
	-	OF	-	-	-	-	-	-	
Oleve fotal area than a	- 4.5		-	-	-	-	-	-	
Slow fetal growth and		ALL	1	-	1	-	-	-	
Fetal malnutrition-(764)		WM	1	-	1	-	-	-	
		WF	-	-	-	-	-	-	
		BM	-	-	-	-	-	-	
	-	BF	-	-	-	-	-	-	
	=	OM	-	-	-	-	-	-	
	-	OF	-	-	-	-	-	-	

Table IM8. Infant De	eath (Exclusiv	ve Of Stillb Louis	irths) by S iana, 1997	Selected C	auses,	Sex, Rac	e, and A	lge		
				Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364	
Disorders relating to	194.1	ALL	128	115	9	2	-	1	1	
Short gestation and	104.9	WM	20	18	1	1	-	-	-	
Unspecified low	87.1	WF	16	13	2	-	-	1	-	
Birthweight-(765)	333.4	BM	46	40	4	1	-	-	1	
	337.9	BF	45	43	2	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	150.8	OF	1	1	-	-	-	-		
Disorders relating to long	-	ALL	-	-	-	-	-	-		
Gestation and high	_	WM	-	-	-	-	-	-		
Birthweight-(766)	-	WF	-	-	-	-	-	-		
5 , ,	-	BM	-	-	-	-	_	-		
	_	BF	-	-	-	-	_	-		
	-	OM	-	_	-	-	-	-		
	_	OF	_	-	-	-	-	_		
Birth trauma-(767)	9.1	ALL	6	_	4	_		1	1	
Bitti tradina (707)		WM	2		2			<u>'</u>		
		WF	1		1					
	14.5			-	1			1		
		BF	2	-	ı	-	-	1		
	7.5		1	-	-	-		-	1	
		OM	-	-	-	-		-	•	
	-	OF	-	-	-	-	-	-		
Intrauterine hypoxia and		ALL	9	7	-	2	-	-		
Birth asphyxia-(768)		WM	3	1	-	2	-	-		
		WF	2	2	-	-	-	-		
		BM	1	1	-	-	-	-		
	22.5		3	3	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	=	-	-	-	-		
Fetal distress in liveborn	-	ALL	-	-	-	-	-	-		
Infant-(768.2-768.4)	-	WM	-	-	-	-	-	-		
	-	WF	-	-	-	-	-	-		
	-	BM	-	-	-	-	-	-		
	-	BF	-	-	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Birth asphyxia-(768.5-768.9)	13.6	ALL	9	7	-	2	-	-		
		WM	3	1	-	2	-	-		
		WF	2	2	-	-	-	-		
		BM	1	1	-	-	-	-		
	22.5		3	3	_	-	-	-		
	_	OM	-	_	-	-	-	-		
	-	OF	_	_	-	-	-	_		

Table IM8. Infant De	·		iana, 1997							
		_		Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364	
Respiratory distress	22.7	ALL	15	1	8	2	1	1	2	
Syndrome-(769)		WM	2	-	2	-	-	-		
	16.3	WF	3	-	2	-	-	-	,	
	36.2	BM	5	1	2	-	1	1		
	37.5	BF	5	-	2	2	-	-	,	
	-	OM	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Other respiratory	71.3	ALL	47	25	12	1	-	-	Ş	
Conditions of newborn-(770)	62.9	WM	12	5	5	-	-	-	2	
	10.9	WF	2	-	-	1	-	-	1	
	108.7	BM	15	11	2	-	-	-	2	
	127.6	BF	17	9	4	-	-	-	4	
	_	ОМ	-	-	-	-	-	-		
	150.8	OF	1	-	1	-	-	-		
Infections specific to the	31.8	ALL	21	1	6	2	7	3	2	
Perinatal period-(771)		WM	7	-	1	2	4	-		
	27.2		5	-	1	-	1	2	-	
	36.2		5		2	-	1	1	-	
	22.5		3		1	-	1	_		
	136.8		1	_	1	_		_		
	-	OF	-	_	-	_	_	_		
Neonatal hemorrhage-(772)	4.5	ALL	3	_	3		_	_		
rteoriatar nemormage (772)	4.0	WM			-					
		WF	_		_			_		
		BM	_		_			_		
	22.5		3		3			_		
	22.5	OM	3		-					
		OF	_	1				-		
Hemolytic disease of	-	ALL	-	-	-	-	-	-		
			-	1				-		
Newborn, due to		WM	-	1			-			
Isoimmunization, and other	-	WF BM	-	-	-	-	-	-		
Perinatal jaundice-(773-774)		BF	-	-	-	-	-	-		
			-	-	-	-	-	-		
	-	OM	-	-	-	-	-	-	,	
		OF	-	-	-	-	-	-		
Syndrome of "infant of a	1.5	ALL	1	-	1	-	-	-		
Diabetic mother" and	-	WM	-	-	-	-	-	-		
Neonatal diabetes mellitus-		WF	-	-	-	-	-	-		
(775.0-775.1)		BM	-	-	-	-	-	-		
	7.5	BF	1	-	1	-	-	-		
	-	OM	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		

Louisiana, 1997										
		_		Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364	
Hemorrhagic disease of	-	ALL	-	-	-	-	-	-		
Newborn-(776.0)	-	WM	-	-	-	-	-	-		
	-	WF	-	-	-	-	-	-		
	-	ВМ	-	-	-	-	-	-		
	-	BF	-	-	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
All other and ill-defined	39.4	ALL	26	10	4	7	4	1		
Conditions originating in	42	WM	8	3	-	5	-	-		
The perinatal period-	16.3	WF	3	-	-	1	2	-		
(775.2-775.9,776.1-779)	79.7	BM	11	5	3	-	2	1		
	30	BF	4	2	1	1	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Symptoms, signs and ill-	130.4	ALL	86	-	-	1	1	2	82	
Defined conditions-(780-799)	131.1		25	-	-	-	-	_	25	
	32.7		6		-	-	-	-	(
	159.5		22	-	-	1	1	1	19	
	247.8		33	_	_		_	1	32	
		OM	_	_	_	_	_			
		OF	_	_	_	_	_	_		
Sudden infant death	124.3		82	_	_	_	1	2	79	
Syndrome-(798.0)	131.1		25						2	
Cynarome (150.0)	32.7		6		_		_		- (
	152.2		21				1	1	19	
	225.3		30				'	1	29	
	223.3	OM	30					'	23	
	-	OF	-	-	_	-	-	-		
Compared and all	- 0.4		-	-	-	-		_		
Symptoms, signs and all		ALL	4	-	-	1	-	-		
Other ill-defined	-	WM	-	-	-	-		-		
Conditions- (780-797,798.1-799)	-	WF	-	-	-	-	-	-		
		BM	1	-	-	1	-	-		
	22.5		3	-	-	-	-	-		
	-	OM	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Accidents and adverse	22.7		15		-	-	-	-	14	
Effects-(e800-e949)		WM	4		-	-	-	-		
	16.3		3	-	-	-	-	-		
		ВМ	4	-	-	-	-	-	4	
	30	BF	4	1	-		-			
	-	ОМ	-	-	-		-			
	-	OF	-	-	-	-	-	-		
			ĺ							

Louisiana, 1997 Age at Death Days										
Cause Of Death And	Rate*	Race	Total	Under		Age at De	eath Day	S		
ICD-9 List Number	Nate	Sex	Iotai	1	1-6	7-13	14-20	21-27	28-364	
Inhalation and ingestion of	4.5	ALL	3	-	-	-	-	-	;	
Food or other object	5.2	WM	1	-	-	-	-	-		
Causing obstruction of	-	WF	-	-1	-	-	-	-		
Respiratory tract or	7.2	ВМ	1	-	-	-	-	-		
Suffocation- (e911-e912)	7.5	BF	1	-	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Accidental mechanical	4.5	ALL	3	-	-	-	-	-	;	
Suffocation-(e913)	5.2	WM	1	-	-	-	-	-		
	5.4	WF	1	-	-	-	-	-		
	7.2	BM	1	-	-	-	-	-		
	-	BF	-	-	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Other accidental causes	13.6	ALL	9	1	-	-	-	-	8	
And adverse effects-	10.5	WM	2	-1	-	-	-	-	- 2	
(E800-e910,e914-e949)	10.9	WF	2	-	-	-	-	-	2	
	14.5		2	-	-	-	-	-	2	
	22.5	BF	3	1	-	-	-	-	2	
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Homicide-(e960-e969)	6.1	ALL	4	1	-	-	-	-		
	15.7	WM	3	-	-	-	-	-	;	
	-	WF	-	-	-	-	-	-		
	-	BM	-	-	-	-	-	-		
	7.5	BF	1	1	-	-	-	-		
	-	ОМ	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Child battering and other	4.5	ALL	3	-	-	-	-	-	;	
Maltreatment-(e967)	15.7	WM	3	-	-	-	-	-	;	
	-	WF	-	-	-	-	-	-		
		BM	-	-	-	-	-	1		
	-	BF	-	-	-	-	-	1		
	-	OM	-	-	-	-	-	-		
	-	OF	-	-	-	-	-	-		
Other homicide-	1.5	ALL	1	1	-	-	-	-		
(E960-e966,e968-e969)	-	WM	-	-		-	-	-		
		WF	-	-	-	-	-	-		
		ВМ	-	-	-	-	-	-		
	7.5	BF	1	1	-	-	-	-		
	-	ОМ	-	-		-	-	-		
	-	OF	-	-	-	-	-	-		
		1	1	1		I	1		ĺ	

Table IM8. Infant Death (Exclusive Of Stillbirths) by Selected Causes, Sex, Race, and Age Louisiana, 1997									
			Age at Death Days						
Cause Of Death And ICD-9 List Number	Rate*	Race Sex	Total	Under 1	1-6	7-13	14-20	21-27	28-364
All other causes-(residual)	53.1	ALL	35	1	1	7	5	-	21
	42	WM	8	-	-	-	2	-	6
	21.8	WF	4	1	-	1	-	-	2
	79.7	ВМ	11	-	-	4	2	-	5
	82.6	BF	11	-	1	2	1	-	7
	-	ОМ	-	1	-	-	1	-	-
	150.8	OF	1	-	-	-	-	-	1

^{*} Rate per 100,000 live births